

FIG. 1

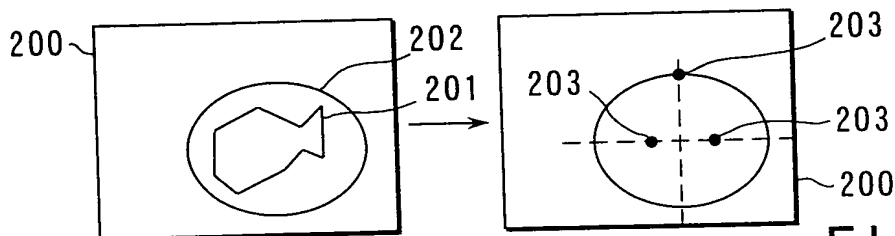


FIG. 2A

FIG. 2B

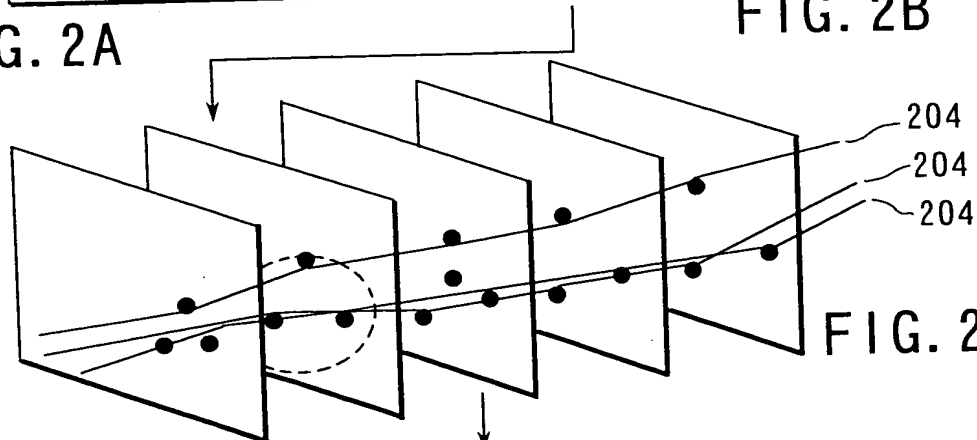


FIG. 2C

FIG. 2D is a diagram showing a box 205 containing mathematical expressions for the approximation of the object's movement. The expressions are:

$$\begin{aligned} &(0 \leq t \leq 5) \\ &3t^2 - t + 3 \\ &(5 \leq t \leq 16) \\ &2.4t^3 - 12t^2 + 4t - 28 \end{aligned}$$

FIG. 2D

FIG. 3

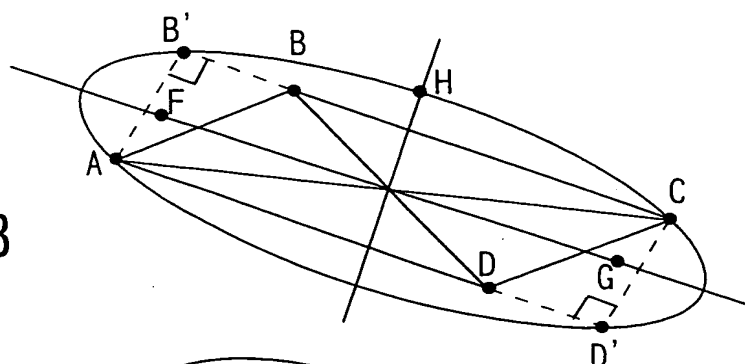
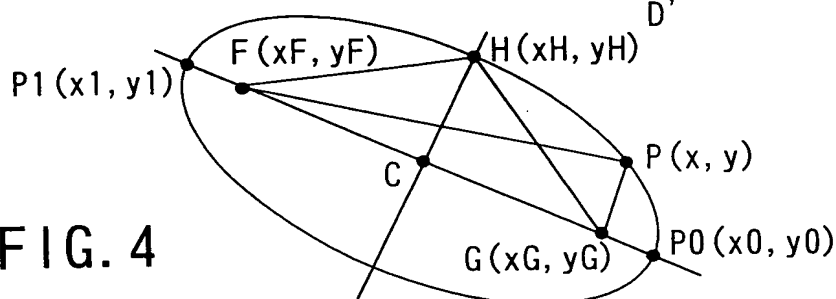


FIG. 4



OBJECT REGION DATA	
ID NUMBER	~400
LEADING FRAME NUMBER	~401
TRAILING FRAME NUMBER	~402
POINTER FOR POINTING RELATED INFORMATION	~403
APPROXIMATE FIGURE NUMBER	~404
APPROXIMATE FIGURE DATA	~405

FIG. 5

APPROXIMATE FIGURE DATA	
FIGURE TYPE ID	1300
REPRESENTATIVE POINT NUMBER (M)	1301
REPRESENTATIVE POINT LOCUS DATA (1X)	1302
REPRESENTATIVE POINT LOCUS DATA (1Y)	1303
REPRESENTATIVE POINT LOCUS DATA (2X)	
REPRESENTATIVE POINT LOCUS DATA (2Y)	
⋮	
REPRESENTATIVE POINT LOCUS DATA (MX)	
REPRESENTATIVE POINT LOCUS DATA (MY)	

FIG. 6

REPRESENTATIVE POINT LOCUS DATA

1403	KNOT FRAME NUMBER	1400
	ORDER OF POLYNOMIAL (K)	1401
	COEFFICIENT OF POLYNOMIAL (0th-ORDER)	1402
	COEFFICIENT OF POLYNOMIAL (1th-ORDER)	
	⋮	
	COEFFICIENT OF POLYNOMIAL (Kth-ORDER)	
	KNOT FRAME NUMBER	
	ORDER OF POLYNOMIAL (K')	
	COEFFICIENT OF POLYNOMIAL (0th-ORDER)	
	COEFFICIENT OF POLYNOMIAL (1th-ORDER)	
	⋮	
	COEFFICIENT OF POLYNOMIALS (K' th-ORDER)	

FIG. 7

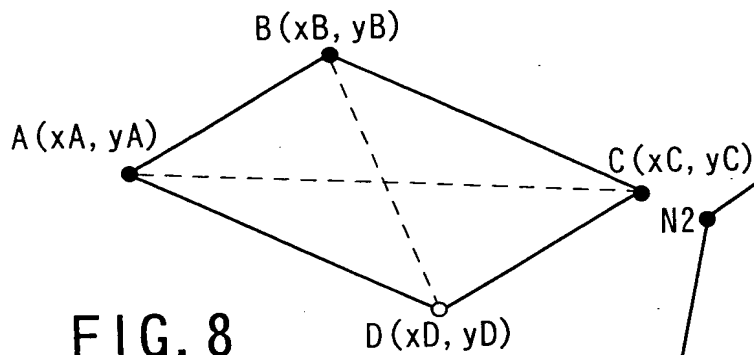


FIG. 8

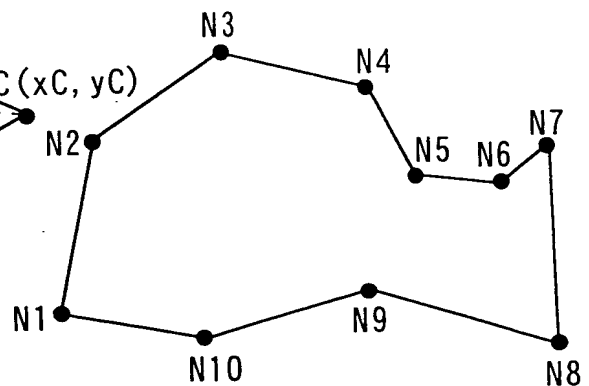


FIG. 9

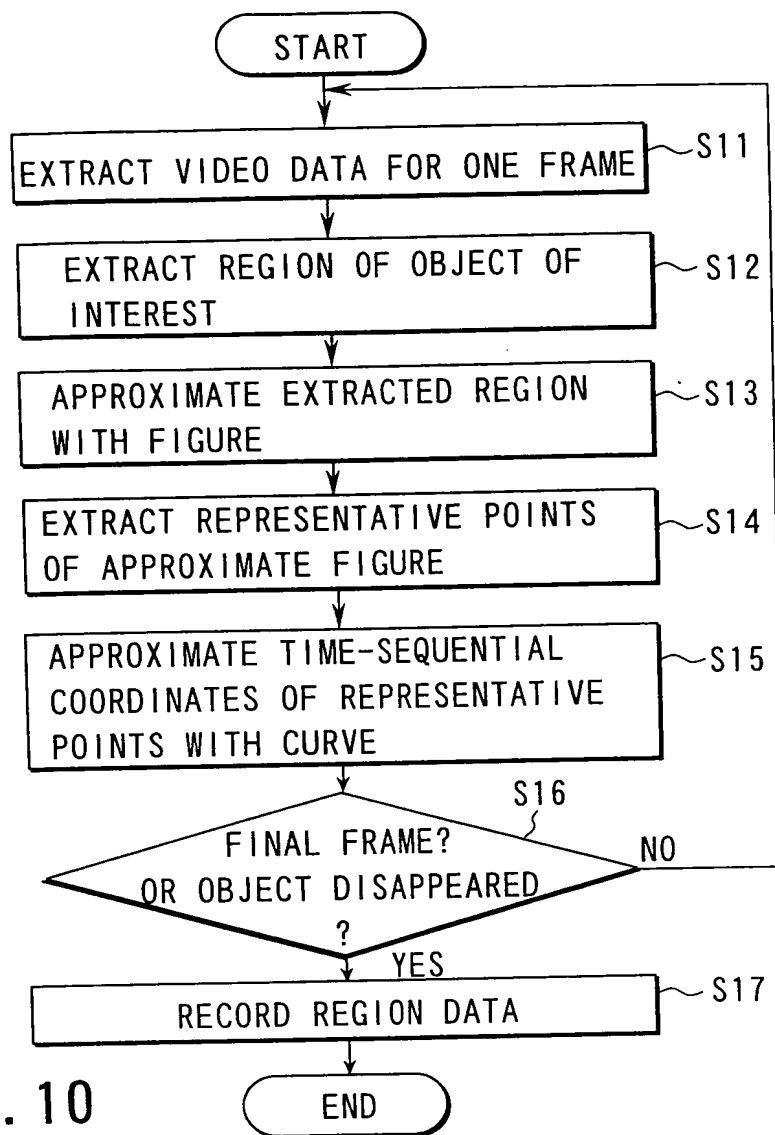


FIG. 10

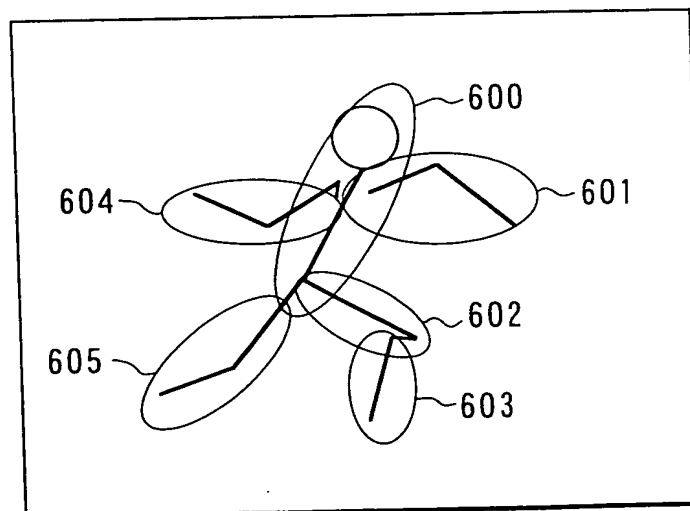


FIG. 11

FIG. 12

OBJECT REGION DATA	
ID NUMBER	400
LEADING FRAME NUMBER	401
TRAILING FRAME NUMBER	402
POINTER FOR POINTING RELATED INFORMATION	403
APPROXIMATE FIGURE NUMBER (L)	404
APPROXIMATE FIGURE DATA (1)	405
APPROXIMATE FIGURE DATA (2)	
⋮	
APPROXIMATE FIGURE DATA (L)	

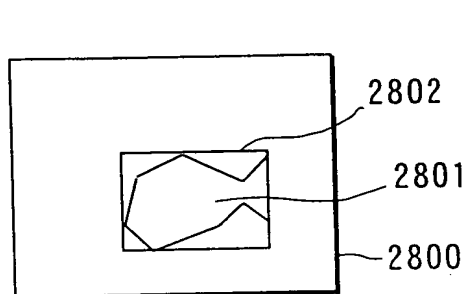


FIG. 13A

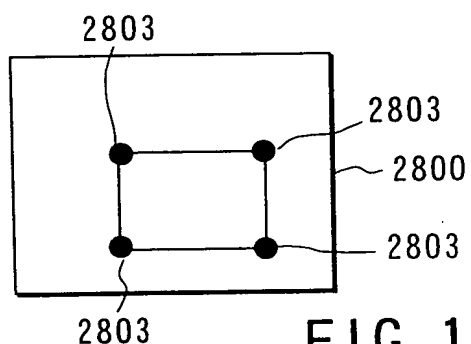


FIG. 13B

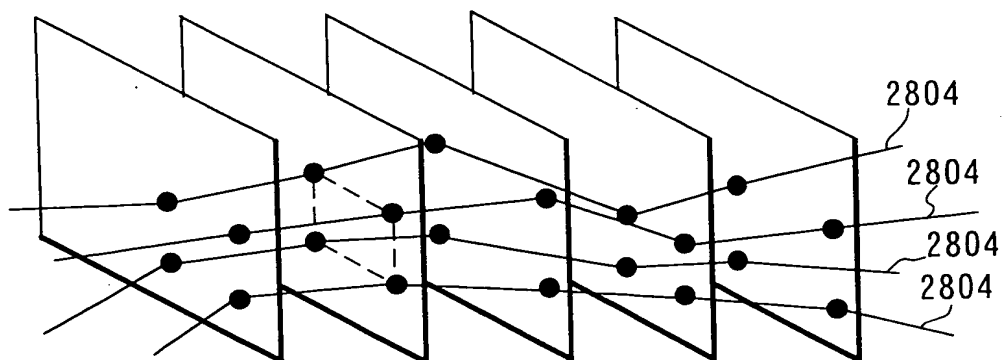


FIG. 13C

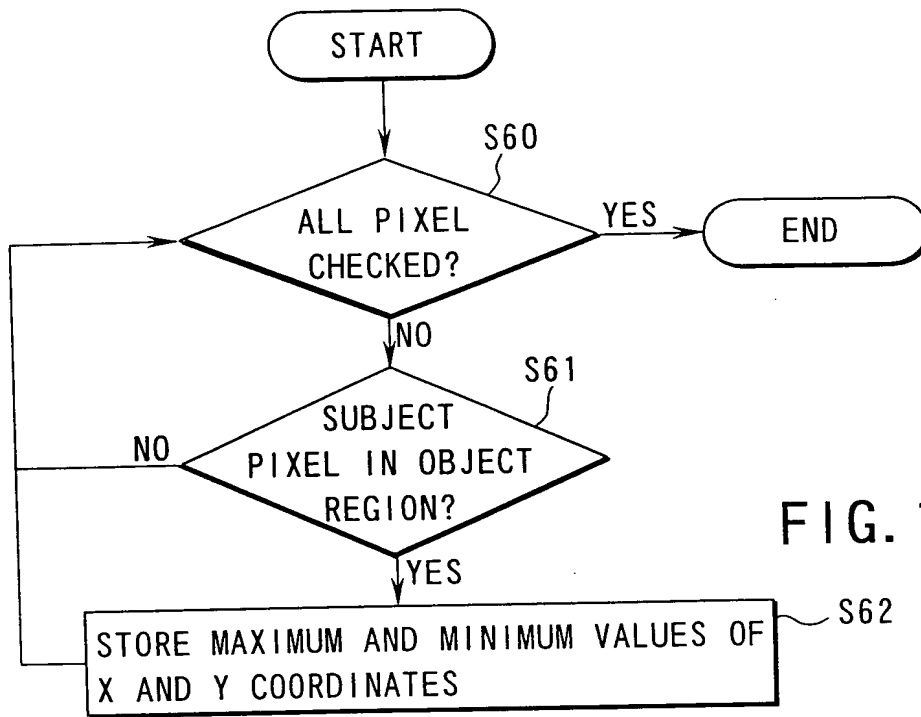


FIG. 14

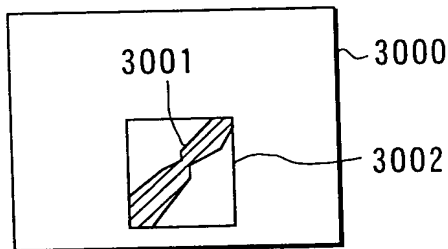


FIG. 15

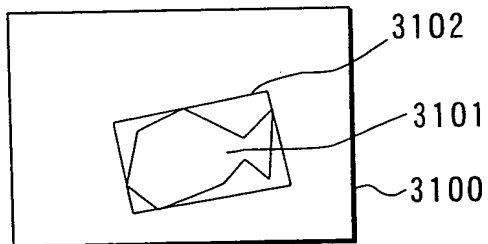


FIG. 16A

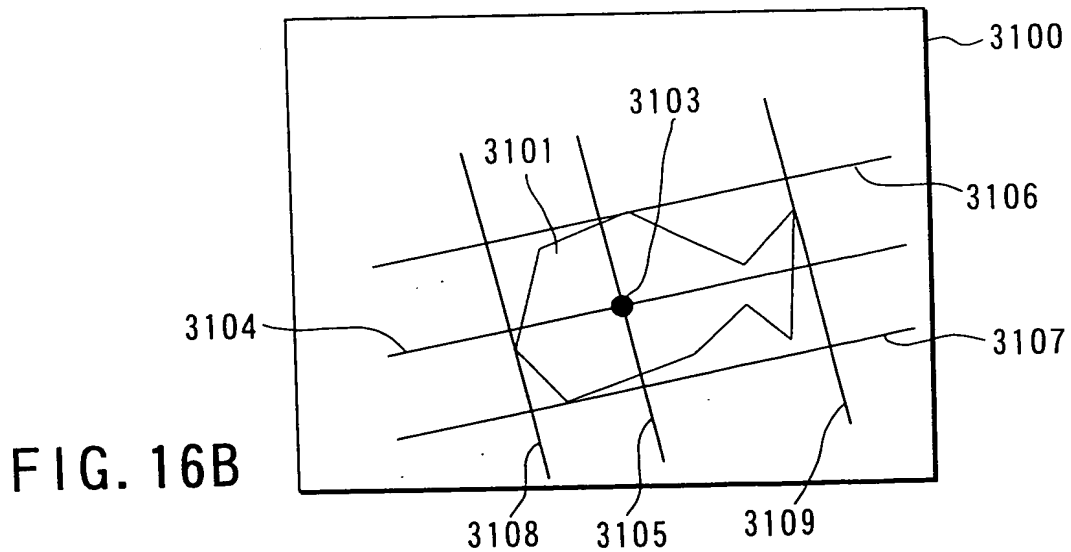
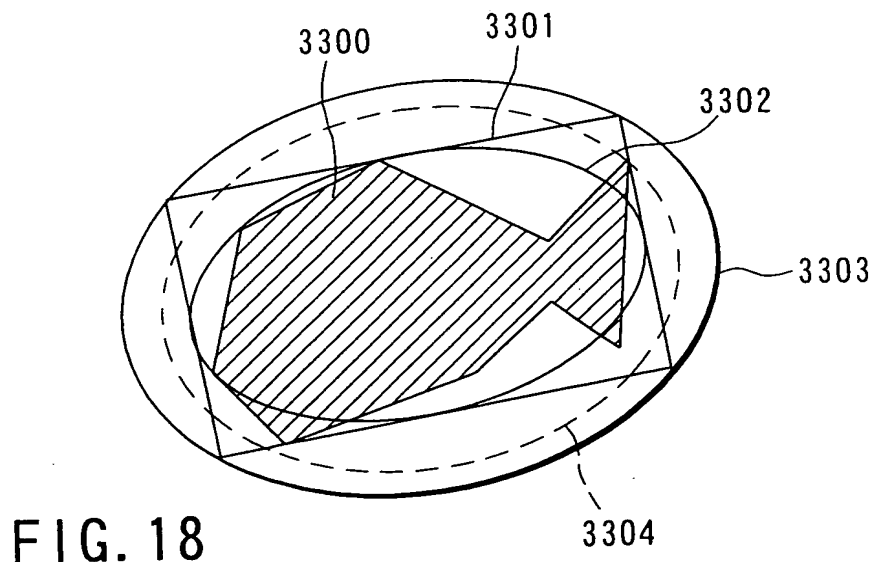
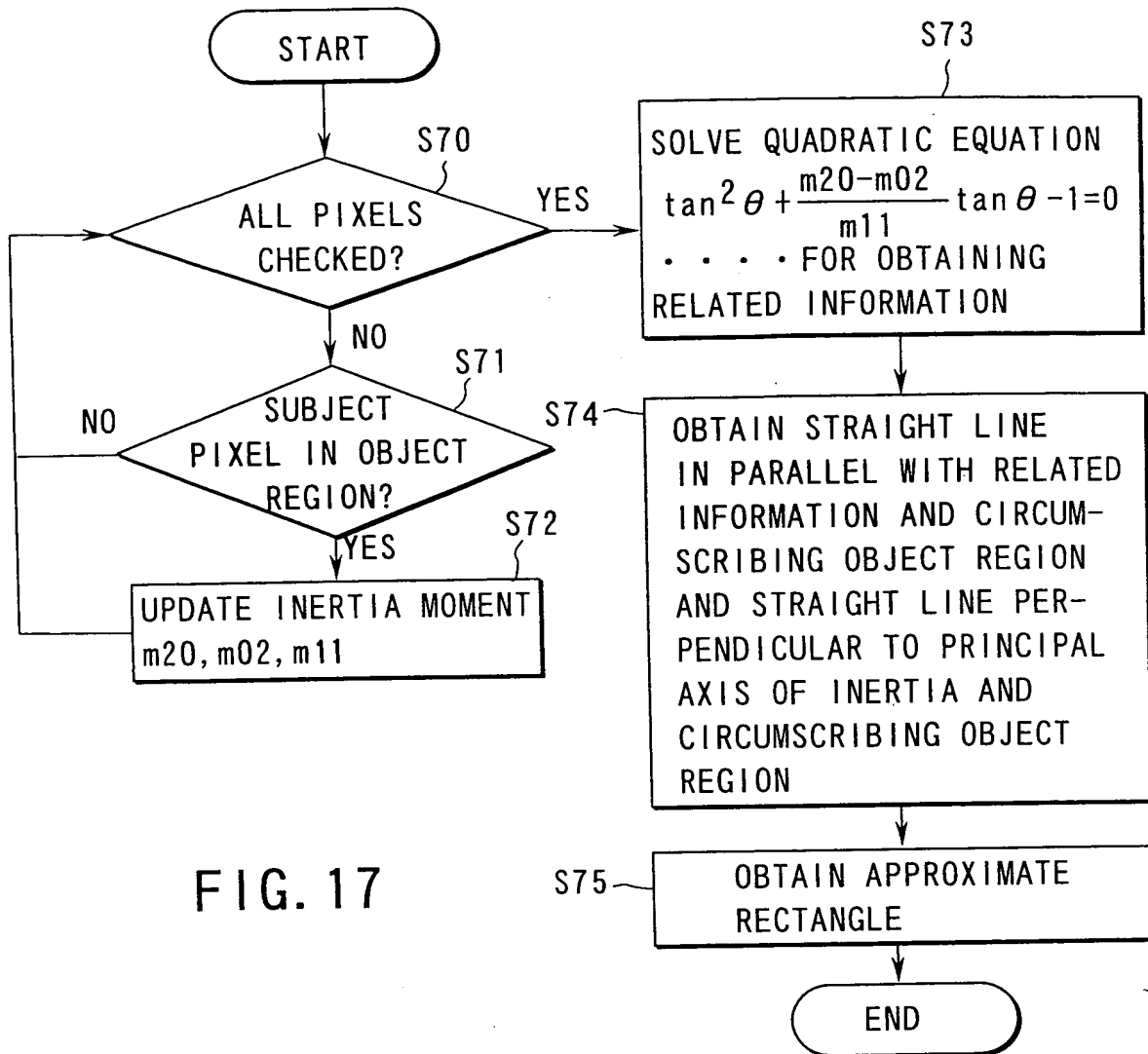


FIG. 16B



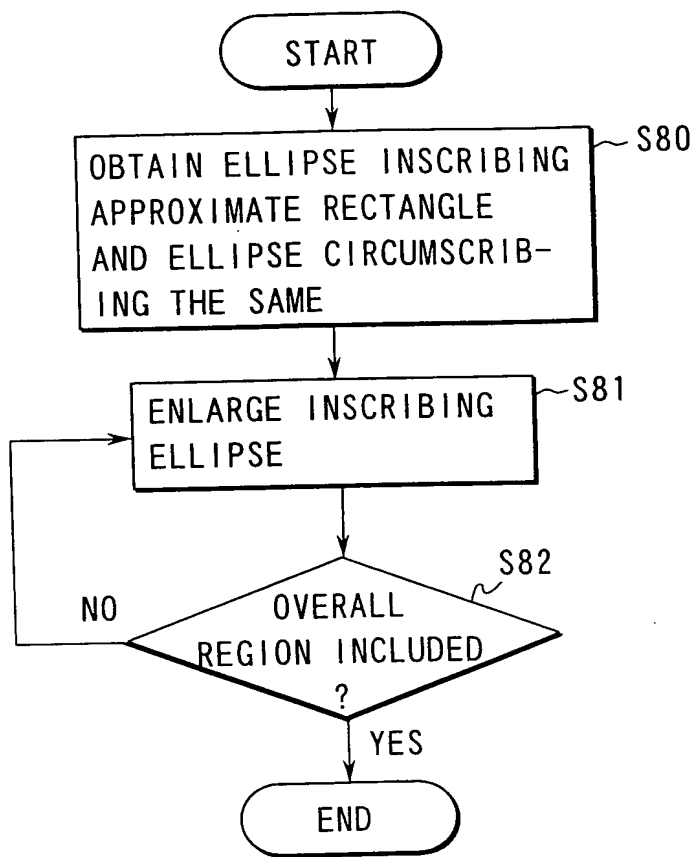


FIG. 19

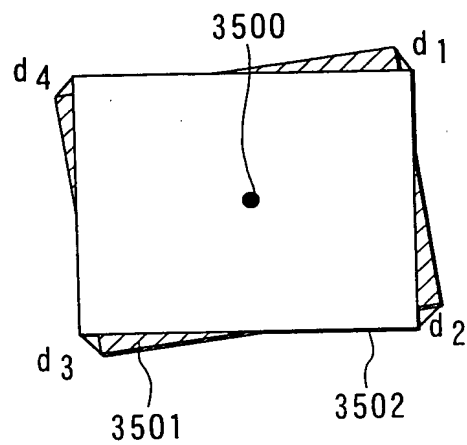


FIG. 20

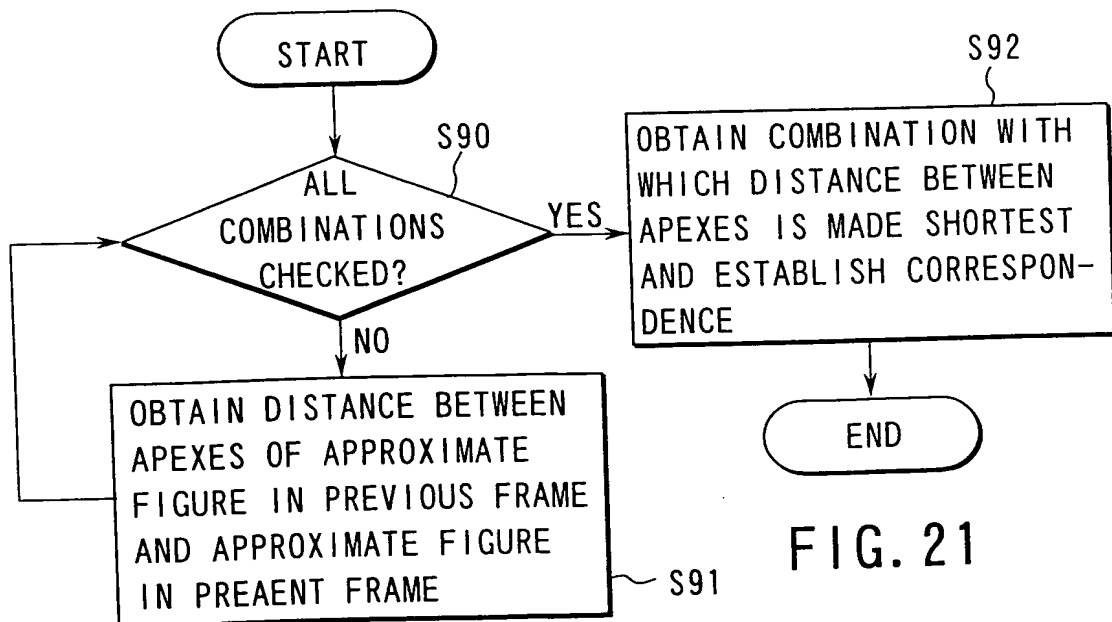


FIG. 21

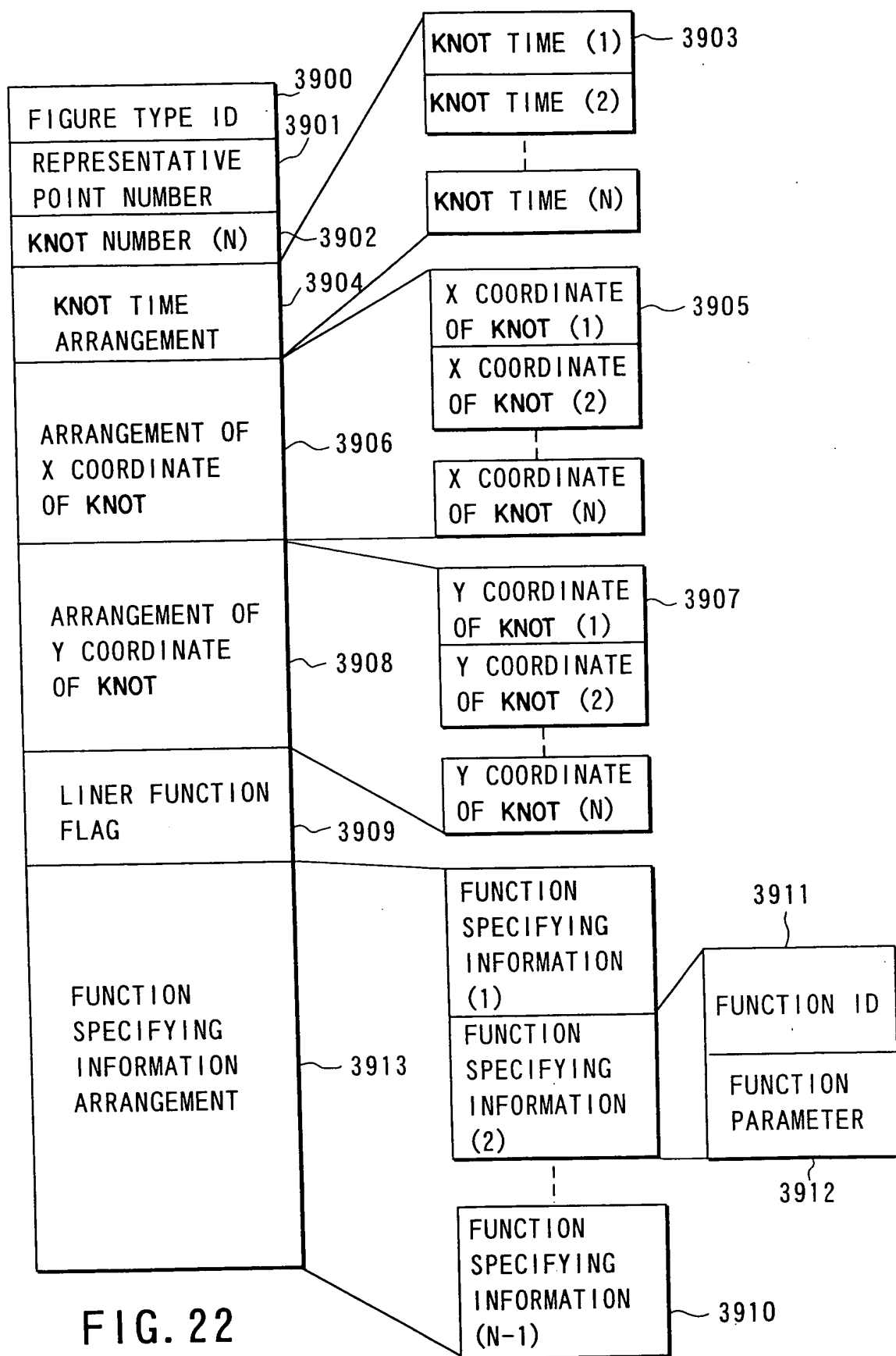


FIG. 22

FIG. 23

FIGURE TYPE ID	TYPE OF FIGURE	REPRESENTATIVE POINT NUMBER
0	FORBIDDEN	-
1	CENTROID	1
2	RECTANGLE	3
3	RECTANGLE & CENTROID	4
4	ELLIPSE	3
5	ELLIPSE & CENTROID	4

FUNCTION ID	TYPE OF FUNCTION	FUNCTION PARAMETER	LIMIT CONDITION
-1	NO TYPE (NUMBER IS NOT DEFINED)	NO PARAMETER	NO LIMIT
0	$f(t) = f_a + v_a(t - t_a)$	NO PARAMETER	$v_a = \frac{f_b - f_a}{t_b - t_a}$
1	$f(t) = f_a + v_a(t - t_a) + \frac{1}{2} a_a (t - t_a)^2$	a_a	$v_a = \frac{f_b - f_a}{t_b - t_a} - \frac{1}{2} a_a (t_b - t_a)$

FIG. 24

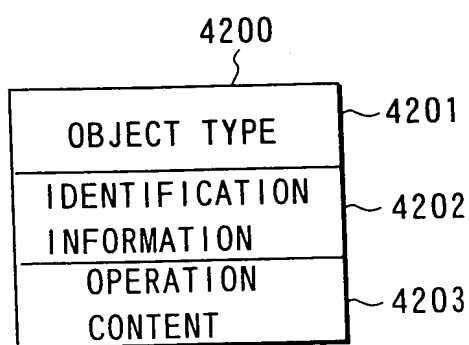


FIG. 25

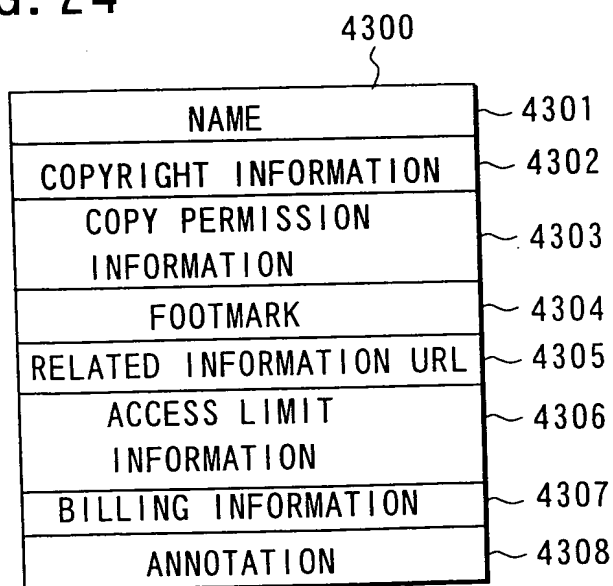


FIG. 26